

ATTORNEY DOCKET NO.
2003P12387US

PATENT APP. SERIAL NO.
10/691,933

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A corona suppression apparatus for a dynamoelectric machine having a stator coil covered with a corona suppression covering that has a first covering portion and a second covering portion, the apparatus comprising a member conducting to ground abutting a top layer of the corona suppression covering proximate an overlap region of said first covering portion and second covering portion, wherein said first covering portion has a comparatively high higher resistivity corona-suppression covering portion and with respect to said second covering portion, and said second portion has a comparatively low lower resistivity with respect to said first covering portion corona-suppression covering portion.

2. (Original) The apparatus of claim 1, the member positioned in a gap between the corona suppression covering and a stator core clamping finger extending from a stator core proximate the stator coil.

3. (Original) The apparatus of claim 2, wherein the member is compression biased between the corona suppression covering and the stator core clamping finger.

4. (Original) The apparatus of claim 3, wherein the member is compressed by about 5% to 35% from a free state.

5. (Original) The apparatus of claim 2, wherein the member comprises a protrusion cooperatively associated with a recess in the finger for positioning the member.

ATTORNEY DOCKET NO.
2003P12387US

PATENT APP. SERIAL NO.
10/691,933

6. (Original) The apparatus of claim 2, wherein the dynamoelectric machine comprises two adjacent stator coil end turns covered with corona suppression coverings and the member comprises an axial length spanning a space between the two adjacent end turns to abut the corona suppression covering on each end turn.

7. (Currently Amended) The apparatus of claim 1, wherein the member comprises a resistivity within about 50% to 200% of a resistivity of the ~~low~~lower resistivity corona suppression covering portion.

8. (Original) The apparatus of claim 1, wherein the member comprises a surface resistivity between about 1 kilo-ohm per square inch to 40 kilo-ohms per square inch.

9. (Original) The apparatus of claim 1, wherein the member comprises a compound selected from the group consisting of graphite, carbon black, and silicone.

10. (Original) The apparatus of claim 1, wherein the member comprises a first portion and a second portion joined to form a collar positioned around the stator coil proximate the overlap region.

11. (Currently Amended) The apparatus of claim 1, wherein the top layer comprises the comparatively ~~high~~higher resistivity corona suppression covering portion.

ATTORNEY DOCKET NO.
2003P12387US

PATENT APP. SERIAL NO.
10/691,933

12. (Currently Amended) The apparatus of claim 1, wherein the top layer comprises the comparatively ~~low~~lower resistivity corona suppression covering portion.

13. (Original) The apparatus of claim 1, further comprising a lubricant layer provided between the member and the top layer of the corona suppression covering.

14. (Currently Amended) A corona suppression apparatus for a dynamoelectric machine having a stator coil covered with a corona suppression covering having a first and second corona suppression covering portion, the apparatus comprising a clamping member exerting a compressive force of between about 15 pounds per square inch to 150 pounds per square inch on an overlap region between the first and second ~~a comparatively high resistivity~~ corona suppression covering portion, wherein said first corona suppression covering portion has and a comparatively ~~low~~lower resistivity than the second corona suppression covering portion.

15. (Original) The apparatus of claim 14, the clamping member positioned in a gap between the corona suppression covering and a stator core clamping finger extending from the stator core proximate the stator coil.

16. (Original) The apparatus of claim 15, wherein the clamping member is compression biased between the corona suppression covering and the stator core clamping finger.

17. (Original) The apparatus of claim 16, wherein the clamping member is compressed by about from 5% to 35% from a free state.

ATTORNEY DOCKET NO.
2003P12387US

PATENT APP. SERIAL NO.
10/691,933

18. (Original) The apparatus of claim 16, wherein the clamping member comprises a modulus of compressibility between about 300 pounds per square inch to 4000 pounds per square inch.

19. (Original) The apparatus of claim 15, wherein the clamping member comprises a protruding member cooperatively associated with a recess in the finger for positioning the member.

20. (Original) The apparatus of claim 14, wherein the clamping member comprises a semiconductive silicone compound.

21. (Original) The apparatus of claim 14, wherein the clamping member comprises an insulating polymeric compound.

22. (Original) The apparatus of claim 14, wherein the insulating polymeric compound is selected from the group consisting of a polyethylene compound, a polytetrafluoroethylene compound, a polyester compound, and a polyamide compound.

23. (Original) The apparatus of claim 14, wherein the dynamoelectric machine comprises two adjacent stator coil end turns covered with corona suppression coverings and the member comprises an axial length spanning a space between the two adjacent end turns to abut the corona suppression covering on each end turn.

**ATTORNEY DOCKET NO.
2003P12387US**

**PATENT APP. SERIAL NO.
10/691,933**

24. (Original) The apparatus of claim 14, wherein the member comprises a first portion and a second portion joined to form a collar positioned around the stator coil proximate the overlap region.

25. (Currently Amended) A dynamoelectric machine comprising:

a stator core;

a stator coil extending from the stator core;

a corona suppression covering comprising an overlap region of a ~~comparatively high resistivity~~ first and second corona suppression covering portion, wherein said first corona suppression covering portion has ~~and a comparatively low~~ lower resistivity than the second corona suppression covering portion; and

a member conducting to ground abutting the overlap region.

26. (Original) The dynamoelectric machine of claim 25, wherein the member is further positioned in a gap between the corona suppression covering and a stator core clamping finger extending from the stator core proximate the stator coil, the member abutting the stator core clamping finger

27. (Original) The dynamoelectric machine of claim 25, wherein the member exerts a compressive force of between about 15 pounds per square inch to 150 pounds per square inch.